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JOHN H. FRALEY

IMPROVED COTTON TIE.

PATENTED

DEC 10 1867

Fig. 1.

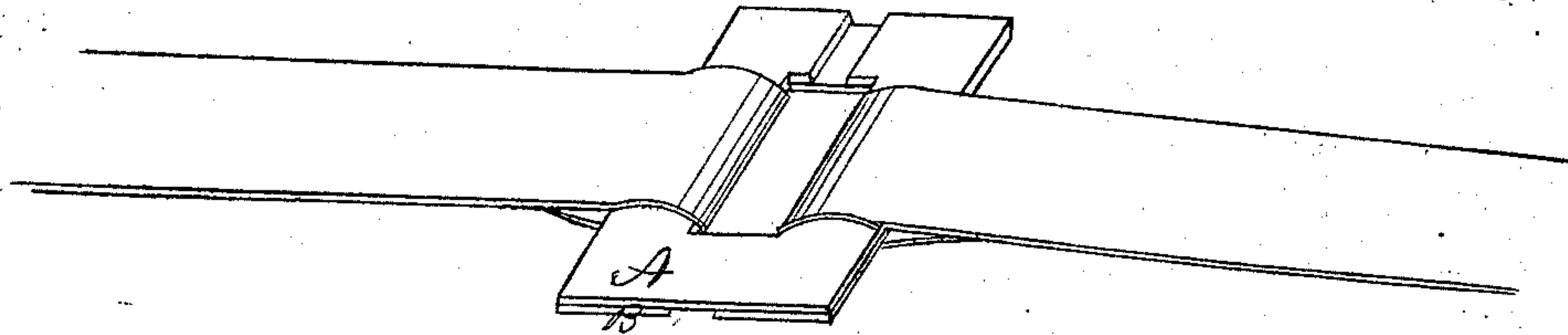


Fig. 2.

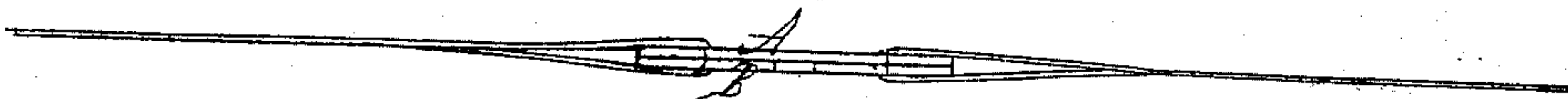
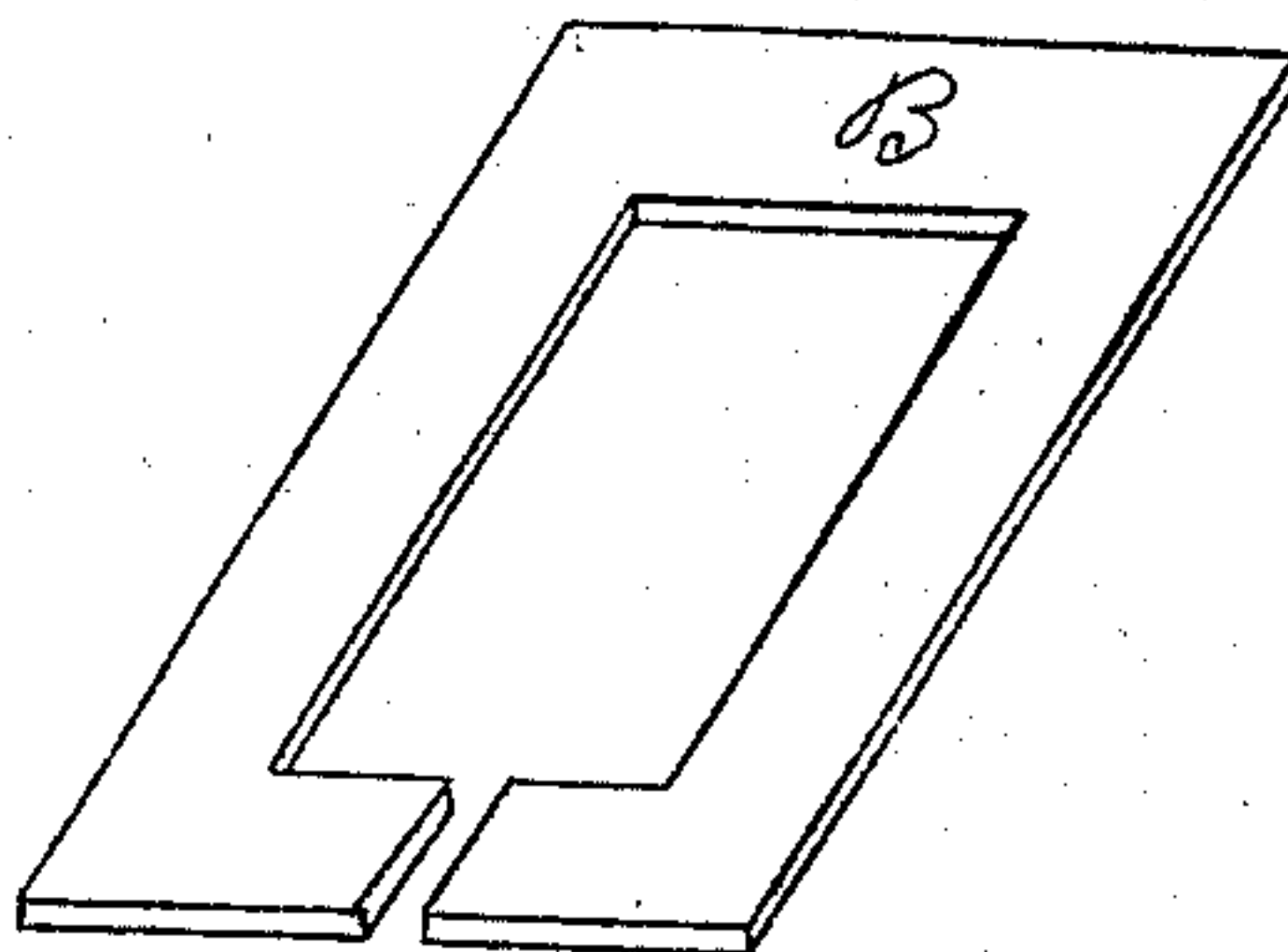
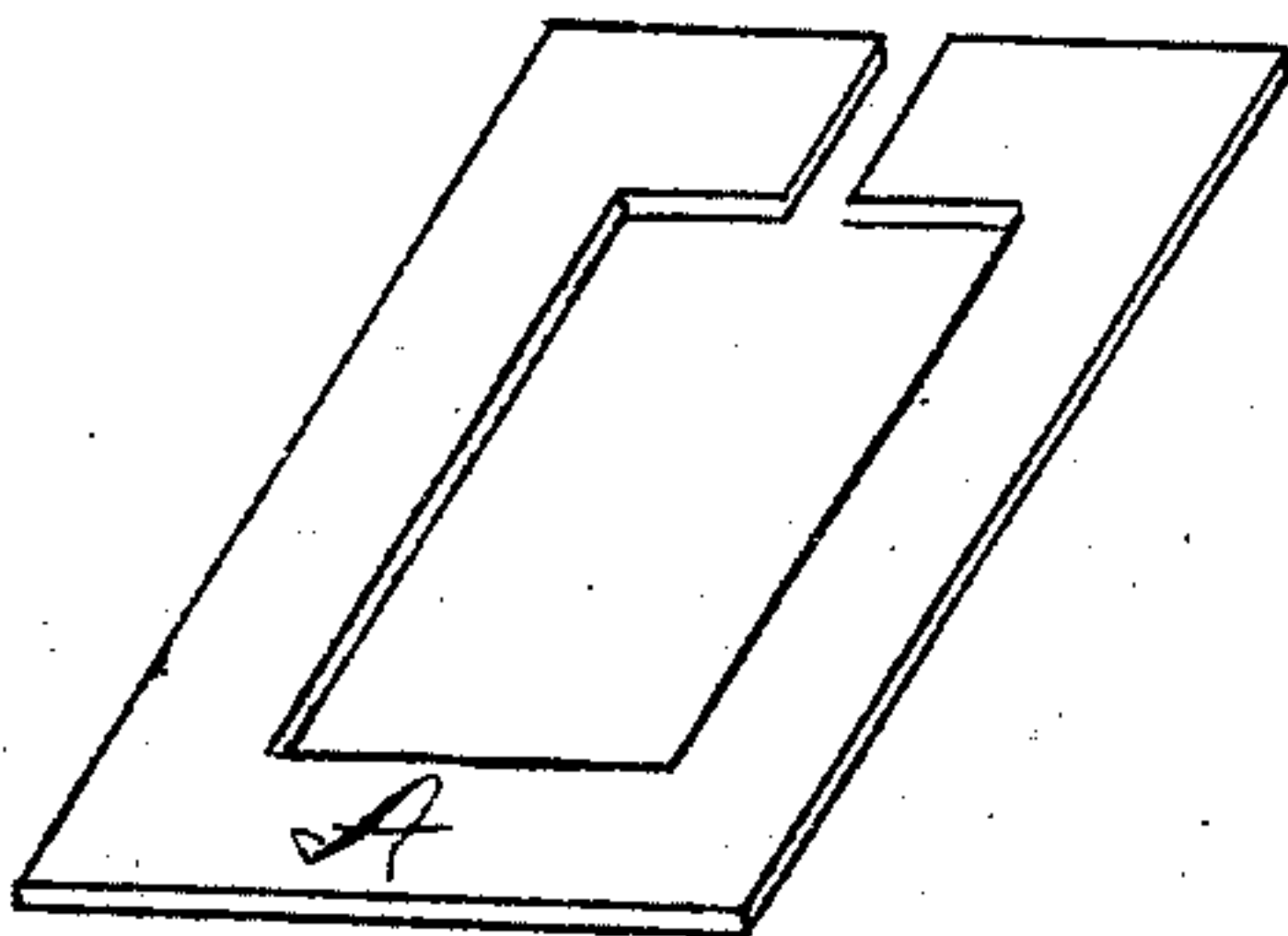


Fig. 3.



WITNESSES.

Rufus R. Rhodes.

W. J. Dufort

INVENTOR.

John H. Fraley

UNITED STATES PATENT OFFICE.

JOHN H. FRALEY, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN COTTON-TIES.

Specification forming part of Letters Patent No. **71,867**, dated December 10, 1867.

To all whom it may concern:

Be it known that I, JOHN H. FRALEY, of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new and useful Improvement in Ties for fastening together the ends of iron bands or hoops, when the same are used in banding cotton-bales; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification.

Before proceeding to describe my invention, it is proper to premise that one great and fundamental objection to, and difficulty in the application and adjustment of, buckle cotton-ties that are unprovided with an opening at their sides arises out of the impossibility of putting the butt-end of the band through said ties in such a manner as to take up the slack of the bands. However thin the band may be, it is yet always sufficiently inflexible to prevent the folding or bending of this end at that precise point which will make the band tight before the compression is taken off the bale.

To obviate this difficulty, and allow of the application of the band to the bale and the fastening of the ends thereof after the ends have been folded into hook form, but especially after the butt-end has been folded into the form of a hook, a variety of buckles have been devised with open sides; but all of them have proven to be inefficient, because in making the openings the strength of the buckle has been so impaired as to cause them to give way or break the moment the bale was withdrawn from the compressing-machine, and the severe tension induced by the expansive force of the cotton within the bale was then brought to bear upon it. Among the ties thus tried and found worthless may be mentioned the patented buckles of Fassman and McComb.

My invention accomplishes the object thus

far vainly sought to be attained; and it consists of a combination of two buckles or plates, rectangular in form, and provided each with a single slot in the center to receive the ends of the hooks, and an opening at the side to permit of the introduction thereof, after the said ends have been bent, into the said slots; but my invention will be better understood by reference to the drawings.

Figure 1 is a perspective, and Fig. 2 an edge view, of my invention connected to the two ends of a hoop, as when in use. The two plates are marked respectively A and B. Fig. 3 represents the two plates when detached from a hoop, or before they are united and applied to a band. It will be perceived they are the exact counterparts of each other.

In the application of my invention to use the process is very simple. The right length of the hoop being ascertained by encircling the bale with it, it is bent at both ends, as seen in Figs. 1 and 2. The ends are then brought together, and the buckles or plates are inserted within the hooks. The openings at the sides of the buckles make this operation very easy, and these openings being on opposite sides, the effect is the same as though no opening upon the side had been cut, and no matter how severe the tension, the buckle cannot be broken.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination of the buckles A and B, when they are constructed and united, as described, with the ends of hoop-iron, when bent into the form of hooks, as and for the purpose set forth.

JOHN H. FRALEY.

Witnesses:

RUFUS R. RHODES,

H. J. DRESSOR.